

## **ABSTRACT**

A tire pressure monitoring and reporting instrument is mounted within a valve stem and has a valve cap. A single circuit can be provided having an LED, a sounder, a battery and a switch. A dual stage system, or a continuously variable system can be implemented by using a dual stage pressure switch or a continuously variable pressure switch. The battery may be housed within the cap and electrical contacts between the cap and stem allow discontinuation of the circuit or changing of the battery.

## CALL OUT LIST OF ELEMENTS

- 10 Moving Part
- 14 Test Switch
- 5 16 Stem Cover
- 20 Valve
- 24 Leaf Spring Switch Contact
- 26 Air Passage
- 28 Leaf Spring Switch
- 10 30 Battery
- 32 Power Battery in Stem
- 40 Cap Speaker
- 42 Stem Speaker
- 48 LED
- 15 50 Tire Wall
- 60 Circuit Interface Connection
- 80 Cap
- 84 Top Surface Contact
- 86 Side Surface contact
- 20 90 Valve Stem Outside
- 92 Valve Stem Inside
- 95 Transmitter

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